

Date February 16, 1983

INVENTION RECORD

Preliminary Disclosure for
Consideration of Patentability

END DAM SEALS

D129

DESCRIPTION OF THE INVENTION (in sufficient detail for the invention to be understood; please identify or attach copies of any reports, notebook pages, or other documents containing particular examples or other pertinent data): A seal (end dam) with an air tight pocket with a flexible wall which prevents leakage at the ends of a set of two adjacent rolls used to meter a liquid or slurry. The seal can function with or without internal pressure in the pocket. One example would be a set of rolls consisting of a metering roll and a transfer roll used for coating or sizing paper or tobacco sheet. This device is essentially a flat seal with an air tight pocket which can be pressurized either pneumatically or hydraulically. The pocket has a flexible wall. The flexible wall assumes the configuration of the ends of the rolls. It thereby compensates for misalignment, difference in length and/or difference in materials of construction of the rolls. *It particularly compensates for the deformation, at the nip point, of a deformable surface material of the rolls. Ref. Philip Morris R&D drawings No. 1918-1159, No. 1918-1237, and No. 1918-1238, and attached sketches.

OBJECTS/ADVANTAGES OF THE INVENTION: Object: To seal and prevent leakage at the ends of a set of two adjacent rolls used to meter a liquid or slurry. Advantages: A flexible wall which assumes the configuration of the ends of the rolls, and thereby compensates for misalignment, difference in length, and/or difference in materials of construction of the rolls. A method for finely controlling the sealing pressure between the seal (end dam) and the surface of the rolls ends. * Note above

STATE OF THE ART (list any known patents or publications that seem pertinent):
None known to me to date.

HAS THERE BEEN A DISCLOSURE OF THE INVENTION TO ANYONE OUTSIDE THE COMPANY? IF SO, EXPLAIN.
None known to date. May be shown to Beloit Corp., a coater mfg., sometime in the near future by J. S. Ketchum. Ref. attached memo.

RECEIVED

MAR 08 1983
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